

In the Claims:

Claims 1-26 (Cancelled)

P1.
P2.
P3.

27. (Currently Amended): An isolated, recombinant polypeptide comprising a member selected from the group consisting of

- (a) the amino acid sequence SEQ ID NO:2;
(b) an immunogenic fragment of SEQ ID NO:2, wherein the immunogenic fragment comprises at least 15 contiguous amino acids of SEQ ID NO:2;

wherein the immunogenic fragment isolated polypeptide, when administered to a subject in a suitable composition which can include an adjuvant, or a suitable carrier coupled to the polypeptide, induces an antibody or T-cell mediated immune response that recognizes the to-a polypeptide consisting of SEQ ID NO:2.

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28. (Currently Amended): The isolated, recombinant polypeptide of claim 27, wherein the polypeptide is according to (a).

3 ✓ 29. (Currently Amended): The isolated, recombinant polypeptide of claim 27, wherein the polypeptide is according to (b).

30. (Cancelled)

4 31. (Currently Amended): The isolated, recombinant polypeptide of claim 27, wherein the immunogenic fragment of (b) comprises at least 20 contiguous amino acids of SEQ ID NO:2, wherein the immunogenic fragment, when administered to a subject in a suitable composition which can include an adjuvant, or a suitable carrier coupled to the polypeptide, induces an antibody or T-cell mediated immune response that recognizes the polypeptide SEQ ID NO:2.

Claims 32-33 (Cancelled)

34. (Currently Amended): The isolated, recombinant polypeptide of claim 27, wherein the isolated, recombinant polypeptide consists of SEQ ID NO:2.

Q 35. (Currently Amended): A fusion protein comprising the isolated, recombinant polypeptide of Claim 27.

Claims 36-52 (Cancelled)

10 53. (Currently Amended): An immunogenic composition comprising the isolated, recombinant polypeptide of Claim 27 and a pharmaceutically acceptable carrier.

Claims 54-61 (Cancelled)

5 62. (Currently Amended): The isolated, recombinant polypeptide of claim 29, wherein the immunogenic fragment of (b) comprises amino acids 47-59 of SEQ ID NO:2.

6 63. (Currently Amended): The isolated, recombinant polypeptide of claim 29, wherein the immunogenic fragment of (b) comprises amino acids 158-172 of SEQ ID NO:2.

64. (Cancelled)

65. (New): An isolated polypeptide consisting of SEQ ID NO: 2.